

INTERNATIONAL SEARCH REPORT

International Application No
PCT/JP 03/17032A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B24B37/04 B24B55/02 B24B49/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 B24B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 776 730 A (RODEL NITTA COMPANY) 4 June 1997 (1997-06-04) page 5, lines 31-34 ----- EP 0 988 931 A (SPEEDFAM CO LTD) 29 March 2000 (2000-03-29) claim 12 ----- US 6 468 136 B1 (CHAN CHIU ET AL) 22 October 2002 (2002-10-22) claim 4 ----- -/-	1,7
X		1,7
X		1,7

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the International filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the International filing date but later than the priority date claimed

- *T* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the International search

28 July 2004

Date of mailing of the International search report

09.08.2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 03, 30 March 2000 (2000-03-30) -& JP 11 347936 A (EBARA CORP), 21 December 1999 (1999-12-21) cited in the application abstract -----	
X	US 2002/187728 A1 (HAYASHI TOSHIYUKI ET AL) 12 December 2002 (2002-12-12) paragraphs '0108!, '0120!; figure 1 -----	2-8, 13-19
A	EP 1 197 292 A (EBARA CORP) 17 April 2002 (2002-04-17) paragraph '0049!; figures 1,2 -----	2-8, 13-19
X	US 3 611 654 A (VELLA CARL J ET AL) 12 October 1971 (1971-10-12) column 1, lines 16-19 -----	8
A	EP 1 075 897 A (WOLTERS PETER) 14 February 2001 (2001-02-14) paragraph '0018!; figures 1,2 -----	9-12, 22, 23
X	US 2002/193050 A1 (SHARAN SUJIT) 19 December 2002 (2002-12-19) claim 12 -----	20, 21, 24-27
X	US 5 762 544 A (BLUMENKRANZ STEPHEN J ET AL) 9 June 1998 (1998-06-09) column 18, lines 40-64 -----	20, 21, 24-27

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Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple Inventions in this international application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1, 7 (when dependent on claim 1)

Substrate holding mechanism and substrate polishing apparatus having a retainer ring made of a polyimide compound.

2. claims: 2-6, 7 (when dependent on 2 to 4), 8 to 27

Substrate holding mechanism and substrate polishing apparatus / method comprising means / steps that relate to the cooling or temperature control of the polishing table and/or substrate holding mechanism components.

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Information on patent family members

International Application No

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Patent document cited in search report	Publication date	Patent family member(s)		Publication date
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